| Index of Claims                     | Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------------------|-------------------------|---|
| <u> </u>                            | 10/670,219              | YUMOTO, NAOTAKA                         |
|                                     | Examiner                | Art Unit                                |
|                                     | Jung (John) Hur         | 2824                                    |
| √ Rejected _ (Through num Cancelled | eral) Non-Elected       | A Appeal                                |

Restricted

Allowed

0

Interference

Objected

| Г        | Claim Date      |            |          |          |          |          | $\neg$   | CI       | aim      |  | Date     |              |          |                 |          |               |         |              | aim             | Date          |   |                      |          |                |          |          |          |          |          |          |          |   |
|----------|-----------------|------------|----------|----------|----------|----------|----------|----------|----------|--|----------|--------------|----------|-----------------|----------|---------------|---------|--------------|-----------------|---------------|---|----------------------|----------|----------------|----------|----------|----------|----------|----------|----------|----------|---|
|          |                 |            | اتر      |          |          | Ī        |          |          |          |  | П        |              | 1        |                 |          |               | Ť       | Ť            |                 |               | 1 |                      |          | П              | $\neg$   | T        | Ť        |          |          | П        | П        | _ |
| -        | ᆔ               | Original   | 3        |          |          |          |          |          | l        |  |          | <del>,</del> | Original |                 |          | 1             |         |              |                 | -             | 1 | <del>-</del>         | Original |                |          | - 1      | - 1      |          |          |          |          |   |
| l,       | Final           | ٠ <u>ق</u> | 16       |          |          |          |          |          |          |  |          | Final        | ij       |                 |          |               |         |              |                 |               | 1 | Final                | įġ       |                |          | - 1      | ı        |          | ı        |          |          |   |
| '        | _               | Ō,         | 16       |          |          |          |          |          |          |  |          |              | ΙŌ       |                 |          |               |         |              |                 | - 1           | 1 | "                    | ŏ        |                |          |          | İ        |          |          |          |          |   |
| H        |                 | 1          |          | $\dashv$ |          | $\dashv$ | -        |          |          | ├  | Н        |              | 51       | 1               | $\vdash$ |               | +       | +            | $\vdash$        |               | ┨ |                      | 404      | $\dashv$       | -        | -+       | $\dashv$ | ᅱ        |          | $\dashv$ | -+       | _ |
| _        | -               |            | M        |          | $\dashv$ | -        | -        |          | -        | <u> </u>   | Н        | -            |          | ⊢               | $\vdash$ | +             | +       | ┼            | $\vdash$        | +             | - | <u> </u>             | 101      | $\dashv$       | $\dashv$ | 4        |          |          |          |          | -+       | _ |
| $\vdash$ |                 | 2          | 4        | _        | $\dashv$ | $\dashv$ |          |          | -        | ⊢  | Н        | -            | 52       | -               | $\vdash$ | +             | -       | ┼—           | $\vdash \vdash$ | _             | - | <u> </u>             | 102      | $\dashv$       | $\dashv$ | $\dashv$ | _        | $\dashv$ | -        | $\dashv$ | $\dashv$ | _ |
| -        | -               | 3          | V        | _        | $\dashv$ | 4        |          |          | <u> </u> | ⊢  | Н        | -            | 53       |                 | $\vdash$ | -             | ┼-      | ┼            | Н               |               | 4 | <u> </u>             | 103      | $\dashv$       | -        | -        | _        | _        | $\dashv$ | -        | $\dashv$ |   |
| ⊢        | $\dashv$        | 4          | 7        |          | $\dashv$ |          |          |          |          | -  | Н        | -            | 54       | ⊢               | $\dashv$ | -             | +       | ┼            | $\sqcup$        |               | 4 |                      | 104      | $\perp$        | -        | 4        | _        | 4        | -        | _        | 4        |   |
| →        | -               | 5          | 7        | -        |          | $\dashv$ | $\dashv$ |          | _        | <u> </u>   | Н        |              | 55       | -               |          | -             | +       | ╄            | $\sqcup$        |               | 4 | <u> </u>             | 105      | $\sqcup$       | -        | 4        | _        | $\dashv$ | _        | _        | 4        |   |
| ⊢        | -               | 6          | N        | _        |          | -        | $\dashv$ |          | _        | <del>                                     </del> | Н        |              | 56       | $\vdash$        | $\dashv$ | -             | +       | ╄            | Н               | _             | 4 |                      | 106      |                | $\dashv$ | _        |          | _        | _        | 4        | _        | _ |
| $\vdash$ | $\dashv$        | 7          | N        | -        |          | $\dashv$ | $\dashv$ |          |          | <u> </u>   | Н        | -            | 57       | $\vdash$        | $\dashv$ | _             | +       | ⊢            |                 |               | 4 |                      | 107      | _              | -        | -        | _        |          |          | _        | $\dashv$ |   |
| $\vdash$ | $\dashv$        | 8          | יא       | _        | -        | $\dashv$ | $\dashv$ |          |          | ⊢  | Ш        |              | 58       |                 | $\dashv$ |               | ╄       | ╄            |                 |               | 4 |                      | 108      |                | -        | -        | _        | _        |          | _        | $\dashv$ | _ |
| $\vdash$ | -               | 9          | N        | _        | -        | -        |          |          |          | <u> </u>   | Н        |              | 59       | _               | $\dashv$ | +             | +-      |              | Ш               |               | 4 |                      | 109      |                | _        | _        | _        | _        | _        | 4        | $\dashv$ |   |
| <u> </u> |                 | 10         | N        | _        | _        | -        | _        |          |          | <u> </u>   | Ш        | -            | 60       | Н               | _        |               | $\bot$  | 1            |                 |               | 4 |                      | 110      |                | _        | 4        | _        | _        | _        |          | _        |   |
| $\vdash$ | _               | 11         | Ŋ        | 4        |          | -        |          |          | <u> </u> | <u> </u>   | Н        | <u> </u>     | 61       | $\perp$         | $\perp$  | $\perp$       | +       | ╀            | $\sqcup$        |               | 4 | $\vdash$             | 111      | $\sqcup$       | _        | 4        | _        |          |          | 4        | 4        |   |
| $\vdash$ | _               | 12         | Ν        | _        | _        | _        |          |          | _        | <u> </u>   | Ш        |              | 62       | Щ               | $\sqcup$ | _ _           | _       | _            | $\sqcup$        |               | 4 |                      | 112      |                |          | 4        |          | _        |          | _        | $\perp$  |   |
| $\vdash$ | _               | 13         | N        | _        |          | _        | _        |          |          | L  | Щ        |              | 63       | Щ               | $\sqcup$ | $\perp$       | ╄       |              | Щ               |               | 1 | $oxed{oxed}$         | 113      | Ш              | 4        | _        |          |          |          | $\dashv$ | _        |   |
| <u> </u> | _               | 14         | N        |          | ļ        | _        | _        |          | L        | ļ  | Ш        |              | 64       | Ш               | $\sqcup$ | $\perp$       | _       | 1_           | Щ               | _             | 4 | $\perp$              | 114      | Ш              |          | $\perp$  | _        |          |          | $\Box$   | _        |   |
| $\perp$  | _               | 15         | N        | _        |          |          | _        |          | _        | <u> </u>   | Ш        |              | 65       | Ш               |          | _             | $\perp$ | 丄            | Щ               |               | 1 |                      | 115      | Ц              |          | _        |          |          | _        | _        | $\perp$  |   |
| $\perp$  | _               | 16         | N        | _        |          |          | ļ        |          | L.       | L_   |          |              | 66       | Ш               | $\Box$   | $\perp$       | $\perp$ | $\perp$      |                 | _             | 1 |                      | 116      |                |          | _        |          |          |          |          |          |   |
| $\perp$  |                 | 17         | N        |          |          |          | ļ        |          |          | L_   | Ш        |              | 67       | Ш               | $\Box$   | $\bot$        | 1       | ↓_           | Ш               | ļ             | 1 |                      | 117      |                |          | [        |          |          | I        |          |          |   |
| L        |                 | 18         | Ν,       |          |          |          |          |          |          | L  | Ш        |              | 68       | Ш               |          |               |         |              |                 |               | 1 |                      | 118      |                |          |          |          |          | [        |          |          |   |
| L        |                 | 19         | ٧        |          |          |          |          |          |          |  |          |              | 69       | Ш               |          |               |         |              |                 |               |   |                      | 119      |                | $\Box$   | $\Box$   |          |          |          |          |          |   |
|          |                 | 20         | N        | _        |          |          |          |          |          |  |          |              | 70       | $\Box$          |          |               |         |              |                 |               |   |                      | 120      |                |          |          |          |          |          |          |          |   |
|          |                 | 21         | V        |          |          |          |          |          |          |  |          |              | 71       |                 |          |               |         |              |                 |               |   |                      | 121      |                |          |          |          |          |          |          |          | _ |
|          |                 | 22         | V        |          |          |          |          |          |          |  |          |              | 72       |                 |          |               |         |              |                 |               |   |                      | 122      |                |          |          |          |          |          |          | $\neg$   | _ |
|          |                 | 23         | ン        |          |          |          |          |          |          |  |          |              | 73       |                 |          |               |         |              |                 |               | ] |                      | 123      |                |          | T        |          | П        | П        | П        | Т        | Т |
|          |                 | 24         | V        |          |          |          |          |          |          |  |          |              | 74       |                 |          |               | П       |              |                 |               | 1 |                      | 124      | П              |          |          |          |          |          |          |          |   |
|          |                 | 25         | ν        |          |          |          |          |          |          |  |          |              | 75       |                 |          | T             | Т       |              | П               |               | 1 |                      | 125      |                | T        | $\neg$   |          |          |          |          |          |   |
|          |                 | 26         | V        |          | $\Box$   | ヿ        | П        |          |          |  | П        |              | 76       |                 |          | $\neg$        |         |              |                 |               | 1 |                      | 126      | $\neg$         | ┪        | ┪        | $\neg$   | 一        | $\neg$   |          | $\top$   | _ |
| Г        |                 | 27         | V        | $\neg$   | $\Box$   |          | $\neg$   |          |          | Г  |          |              | 77       |                 |          | $\neg$        | T       |              |                 | T             | 1 |                      | 127      | $\neg$         | T        | $\neg$   | $\dashv$ | 一        | $\neg$   | 寸        | 一        | _ |
|          |                 | 28         | V        |          |          | コ        | 一        |          |          |  | $\Box$   |              | 78       | П               | $\neg$   | $\top$        | T       |              |                 |               | 1 |                      | 128      |                | $\neg$   |          |          |          |          |          |          | _ |
| Г        |                 | 29         | V        |          | ╗        | $\neg$   |          |          |          |  | П        |              | 79       |                 |          | $\top$        | Τ       |              |                 |               | 1 |                      | 129      |                | $\neg$   | 寸        | 7        | 一        | ╛        | ヿ        |          | _ |
|          |                 | 30         |          |          | $\neg$   |          |          |          |          |  |          |              | 80       |                 |          | $\neg \vdash$ | T       |              |                 |               | 1 |                      | 130      | $\neg$         | T        | ┪        | 寸        | ヿ        | 一        | ヿ        | 寸        | _ |
|          |                 | 31         |          | $\neg$   |          | ヿ        |          |          |          | ┌  |          |              | 81       | $\Box$          |          | $\top$        | 1       | 1            |                 |               | 1 |                      | 131      |                |          | 寸        | 寸        | ヿ        |          | $\dashv$ | 一        | _ |
|          | $\dashv$        | 32         | $\sqcap$ |          |          | -        |          |          |          | Г  |          |              | 82       |                 | $\neg$   | $\top$        | †       |              |                 |               | 1 |                      | 132      | $\neg$         |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | _        | $\dashv$ | _ |
|          | $\neg \uparrow$ | 33         | П        | ┪        | $\dashv$ | $\neg$   | 一        |          |          | Г  | $\Box$   |              | 83       | П               | $\dashv$ | $\top$        | T       |              |                 |               | 1 |                      | 133      | _              | 寸        | 寸        | 寸        | $\neg$   | $\neg$   | $\dashv$ | _        | _ |
|          |                 | 34         |          | 一        | 1        | _        | 寸        |          | Т        |  | $\Box$   |              | 84       | $\vdash$        | _        |               | $\top$  |              | $\Box$          | $\neg \vdash$ | 1 |                      | 134      | 7              | 寸        | 十        | $\dashv$ | 寸        | $\dashv$ | $\dashv$ | 十        | _ |
|          | $\neg$          | 35         | П        | 寸        |          |          |          |          |          | Г  | $\Box$   |              | 85       | П               |          | $\top$        | 1       |              | Ħ               |               | 1 |                      | 135      | $\dashv$       |          | $\dashv$ | $\dashv$ | _        | $\dashv$ | 7        |          | _ |
|          | _               | 36         | H        | ┪        | 寸        | $\dashv$ | 寸        | $\neg$   |          | T  | $\Box$   |              | 86       | П               | $\dashv$ | $\top$        | T       | T            | $\Box$          |               | 1 | $\Box$               | 136      | 寸              | 十        | $\dashv$ | 一        |          | $\dashv$ | $\dashv$ | 十        | _ |
| $\vdash$ | $\dashv$        | 37         | H        | ┪        | _        | 寸        | 1        | $\neg$   | -        |  | $\vdash$ | -            | 87       | П               | 7        | $\dashv$      | +       | Т            | H               | $\neg \vdash$ | 1 |                      | 137      | $\neg$         | $\dashv$ | $\dashv$ | 寸        | _        | _        | $\dashv$ | $\dashv$ | _ |
|          | _               | 38         |          | ┪        | 一        | 一        | 寸        | $\dashv$ |          |  | $\dashv$ |              | 88       | П               | $\neg$   | $\dashv$      | +-      | t            | $\vdash$        |               | 1 | $\Box$               | 138      | $\dashv$       | $\dashv$ | $\dashv$ |          |          | _        | -        | $\dashv$ |   |
| -        | 一               | 39         | $\dashv$ | $\dashv$ | 一        | $\dashv$ | _        | $\dashv$ | _        | $\Box$   | $\dashv$ | <b></b>      | 89       | П               | _        | $\dashv$      | +       | T            | Н               | $\top$        | 1 | <b></b>              | 139      | $\neg \dagger$ | $\dashv$ | -†       | 1        |          |          | -1       | -+       |   |
| $\vdash$ | $\dashv$        | 40         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ |          | Н  | $\dashv$ |              | 90       | $\vdash$        | $\dashv$ | - -           | +       | T            | $\vdash$        | -             | 1 | $\vdash$             | 140      | -              | $\dashv$ | +        | +        | $\dashv$ | $\dashv$ | +        | $\dashv$ | _ |
| $\vdash$ | $\dashv$        | 41         |          | ᅥ        | -+       | 寸        | 十        | $\dashv$ |          | $\vdash$   | H        |              | 91       | H               | $\dashv$ | +             | +       | $\vdash$     | $\vdash$        | +-            | 1 | $\vdash$             | 141      | $\dashv$       | $\dashv$ | 十        | $\dashv$ |          | $\dashv$ | $\dashv$ | +        | _ |
| -        | $\dashv$        | 42         | $\vdash$ | $\dashv$ | $\dashv$ | -        | ᅱ        | $\dashv$ |          | $\vdash$   | $\dashv$ |              | 92       | Н               | $\dashv$ | +             | +       | +-           | -               |               | 1 | $\vdash \vdash$      | 142      | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$ | +        | $\dashv$ | +        | $\dashv$ | _ |
|          | $\dashv$        | 43         | $\vdash$ | ┪        | $\dashv$ | +        | $\dashv$ |          |          |  | 一        | <u> </u>     | 93       |                 | $\dashv$ | +             | +       |              | $\vdash$        |               | 1 | $\vdash$             | 143      | 一              | $\dashv$ | $\dashv$ | $\dashv$ | 一        | -        | +        | $\dashv$ | _ |
| $\vdash$ | $\dashv$        | 44         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | _        |  | $\dashv$ |              | 94       | $\vdash$        | $\dashv$ | $\dashv$      | +       | $\vdash$     | $\vdash$        |               | 1 | $\vdash$             | 144      | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | -+       | -+       |   |
| $\vdash$ | -+              | 45         |          | $\dashv$ | -+       | $\dashv$ | $\dashv$ | $\dashv$ | _        | H  | $\dashv$ | <u> </u>     | 95       | ╁               | $\dashv$ | +             | +       | $\vdash$     | $\vdash$        | +             | 1 | $\vdash \dashv$      | 145      | $\dashv$       | $\dashv$ | $\dashv$ | +        | $\dashv$ | $\dashv$ | ╛        | +        | _ |
| -        | $\dashv$        | 46         | $\dashv$ | $\dashv$ | $\dashv$ | +        | +        |          |          | Н  | $\dashv$ | h            | 96       | $\vdash$        | $\dashv$ | +             | +-      | <del> </del> | $\vdash$        | +             | 1 | $\vdash\vdash$       | 146      | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$ | _ |
| $\vdash$ | -+              | 47         |          | -        | $\dashv$ | $\dashv$ | $\dashv$ |          |          | Н  | $\dashv$ | $\vdash$     | 97       | ┝╌┤             | $\dashv$ | -+-           | +       | $\vdash$     | $\vdash$        | +             | 1 | $\vdash$             | 147      | $\dashv$       | +        | +        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | _ |
| $\vdash$ | $\dashv$        | 48         | $\vdash$ | -        | $\dashv$ | -+       | $\dashv$ | $\dashv$ | _        | $\vdash$   | $\dashv$ | <u> </u>     | 98       | $\vdash \vdash$ | +        | +             | +       | +-           | $\dashv$        | -+-           | 1 |                      | 148      |                | $\dashv$ | +        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        |   |
| -        | $\dashv$        | 49         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          |          |          | $\vdash$   | $\dashv$ | -            | 99       | $\vdash$        | +        | - -           | +       | -            | $\dashv$        |               | 1 | $\vdash$             | 148      |                | +        | +        | +        | $\dashv$ | $\dashv$ | $\dashv$ | +        | _ |
| $\vdash$ | $\dashv$        | ##<br>E0   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          |          | $\vdash$   |          | <b>}</b> —   |          | $\vdash$        | +        | +             | +       | $\vdash$     | $\vdash$        | 1             | 1 | $\vdash\vdash\vdash$ | 149      | $\dashv$       | $\dashv$ | +        | -+       |          | $\dashv$ | $\dashv$ | +        | _ |
|          |                 | 50         |          |          |          | $\perp$  |          | 1        |          |  |          | L            | 100      |                 |          | 1             | 1       | I I          |                 | - 1           | 1 |                      | 150      | 1              | - 1      |          | - [      |          |          | - 1      |          |   |